Elemental Match Game

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Element: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_ Protons: \_\_\_\_\_\_\_\_\_\_ Group Number: \_\_\_\_\_\_\_\_\_\_

Neutrons: \_\_\_\_\_\_\_\_\_\_ Valence Electrons: \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_ Electrons: \_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the magic number for finding other elements to bond with? \_\_\_\_\_\_\_\_\_\_\_\_

If your element only has the first level of the electron cloud, your magic number is \_\_\_\_\_\_\_\_\_\_.

Your element will be looking for other elements that have \_\_\_\_\_\_\_\_\_\_ valence electrons.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Element Name | Valence Electrons | Metal, nonmetal, Metalloid | Type of Bond |
| Match 1 |  |  |  |  |
| Match 2 |  |  |  |  |
| Match 3 |  |  |  |  |
| Match 4 |  |  |  |  |
| Match 5 |  |  |  |  |

Remember:

metal bond with nonmetal = ionic nonmetal bond with nonmetal = covalent metal bond with metal = metallic